



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/680,330 | 10/07/2003 | Gregory C. Franke | 200302308-2 | 5427 |
| 7590 | 05/26/2004 | | EXAMINER | |
| Intellectual Property Administration Legal Department, M/S 35 P.O. BOX 272400 Ft. Collins, CO 80527-2400 | | | SAKRAM, VICTOR N | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 3677 | |

DATE MAILED: 05/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|-----------------|---------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/680,330 | FRANKE ET AL. |
| | Examiner | Art Unit |
| | VICTOR N SAKRAN | 3677 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 07 October 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) 1-9 and 13-25 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 10-12 and 26-33 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 07 October 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date October 7, 2003.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Claim Objections

Claim 10, is objected to because of the following informalities: since the terms “connector member” and “disengaging member” have no proper antecedent basis in the specification, it should read -- hooked member -- and -- removal arm --. Clarification and appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 10-12 and 26-33, are rejected under 35 U.S.C. 103(a) as being unpatentable over Blomquist U. S. Patent No. 6,061,239 in view of Lee U. S. Patent No. 6,108,207 (both are cited by Applicant).

Blomquist discloses the general combination claimed including a plurality of retainer clips for a heat sink (20), each of said retainer clip (30,31) comprising a main body (40), a pair of legs (42,43), each of said legs is provided with a connector members (tabs) (50,51) for engaging the main body to the bottom wall (12) and for securing the heat sink to said bottom wall and a cam latch-type rotatable arm extending outwardly from the clip body (40) and adapted to be rotated between a locked position and an unlocked position such that the locked position causing a securing force to be applied to the heat sink component which is disposed between the clip and the bottom wall and for disengaging the heat sink the rotatable arm will be rotated to the unlocked position causing the connector members (tabs) (50,51) to be released from the bottom wall (12) in order to disengage the heat sink; see Figures 2, 5, 8-10; the abstract; column 4, lines 35-42, 60-65, claims 1 and 2, except for the additional removal arm extending outwardly from the clip and adapted to be pinched in order to disengage the tabs while the rotatable arm in the unlocked position. Lee discloses an integrally formed retainer clip for retaining a heat sink to a main body comprising a disengaging arm (17) extending outwardly from its clip (10) including a squeezing portion (16) which is disposed in such a way that when a pinching force is

applied thereon the engaging leg (18) will be disengaged from its main body (40) and that will also disengage its heat sink (20) from its main body; see Figures 1-4; column 4, lines 21-31, and claim1. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the retainer clip in Blomquist with an additional removal arm and to be extending outwardly from its clip in such a way that when a pinching force applied thereon and its rotatable arm rotated to the unlocked position its connector members (tabs) (50,51) will be disengaged from its main body for disengaging its heat sink in the manner taught, disclosed and suggested by Lee, especially, since such modification involves only routine skill in the art.

Furthermore, Applicant is reminded that in considering the disclosure of a reference, it is proper to take into account not only specific teaching of the reference but also the inferences which one skilled in the art would reasonably be expected to draw therefrom; see In re Preda, 401 F2d 825, 826, 159 USPQ 342,344 (CCPA1968).

Moreover, the particular location and/or the arrangement selected of an elements is considered to be no more than an obvious matter of design choice to one having ordinary skill within the art, especially, since it has been held that rearranging parts of an invention involves only routine skill in the art. See In Re Japikse, 86 USPQ 70

Furthermore, to have the retainer clip and the arms integrally formed is considered to be no more than an obvious matter of design choice to one having

ordinary skill in the art at the time the invention was made, since it has been held that forming in one piece an article which has formerly been formed in two pieces and put together involves only routine skill in the art; see Howard v. Detroit Stove Works, 150 U. S. 164 (1893).

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant's attention is directed to the art cited herein, and of record, as showing structure related to Applicant's disclosed invention .

Response to Arguments

Applicant's arguments filed October 7, 2003 with respect to the 35 USC 103 rejection have been fully considered but they are not persuasive. Since the prior art teaching the use of a retainer clip comprising arms with connector members for securing a heat sink to a main body support.

In response to applicant's argument that the cited references taken individually or collectively fails to teach or suggest Applicant's retainer clip device assembly. The test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of

the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

In response to applicant's argument that there is no suggestion or motivation to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the references clearly teach the use of a retainer clip comprising a plurality of arms including connector members for securing a heat sink to a main body supporting surface.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VICTOR N SAKRAN whose telephone number is 703-308-2224. The examiner can normally be reached on 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. J. Swann can be reached on 703-308-4115. The fax

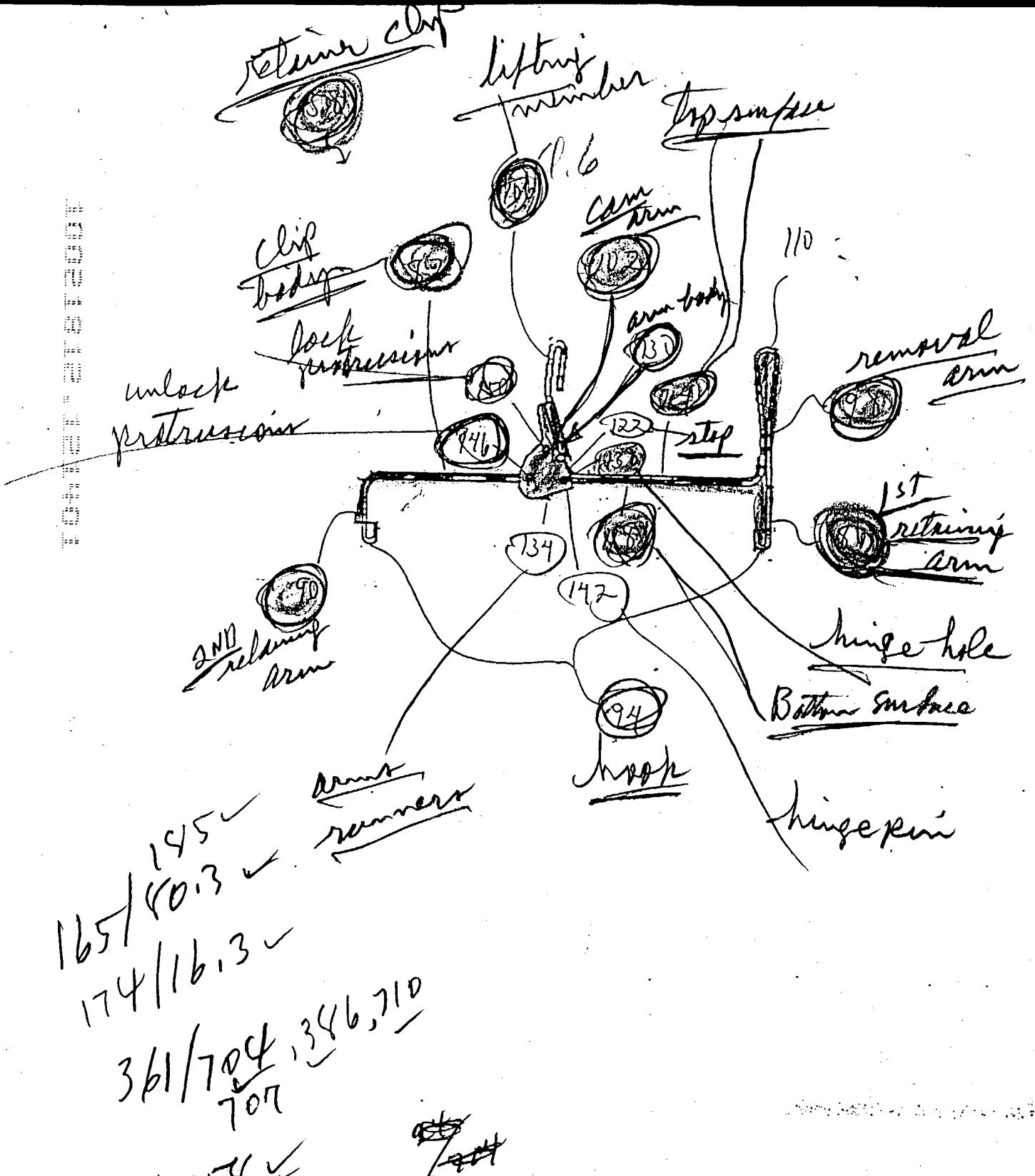
phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 19, 2004



VICTOR N SAKRAN
Primary Examiner
Art Unit 3677



165 | 145 ✓
165 | 40.3 ✓ runner
174 | 16.3 ✓
361 | 704, 346, 710
707

4P/ 454 ✓
459 -
45
517 ✓
457 -
514 -
896 ✓